5 Geographic Shapefile Concepts Overview

The following sections describe the geographic entity type displayed in each shapefile or relationship file, as well as the record layout for each file. Each entity type is listed in alphabetical order. The description of the entity type is preceded by a listing of all available shapefiles, including vintage and geographic level (state, county and national).

5.1 American Indian / Alaska Native / Native Hawaiian (AIANNH) Areas

5.1.1 Alaska Native Regional Corporations (ANRCs)

Alaska Native Regional Corporations are available by state for Alaska in the following shapefile:

Alaska Native Regional Corporation (ANRC) State-based Shapefile (2010 Census)

A corporation created pursuant to the Alaska Native Claims Settlement Act (Pub. L. 92–203, 85 Stat. 688 (1971); 43 U.S.C. 1602 *et seq.* (2000) as a "Regional Corporation" and organized under the laws of the State of Alaska to conduct both the for-profit and non-profit affairs of Alaska Natives within a defined region of Alaska. For the Census Bureau, ANRCs are considered legal geographic entities. Twelve ANRCs cover the entire State of Alaska except for the area within the Annette Island Reserve (an American Indian reservation under the governmental authority of the Metlakatla Indian Community). There is a thirteenth ANRC that represents the eligible Alaska Natives living outside of Alaska that are not members of any of the twelve ANRCs within the State of Alaska. The Census Bureau does not provide data for this thirteenth ANRC because it has no defined geographic extent and thus it does not appear in the TIGER/Line Shapefiles. The Census Bureau offers representatives of the twelve non-profit ANRCs the opportunity to review and update the ANRC boundaries. ANRCs are represented by a five-digit FIPS code in alphabetical order and unique within Alaska and a nationally unique eight-digit ANSI code.

5.1.1.1 Alaska Native Regional Corporation (ANRC) State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_02_anrc10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
ANRCFP10	5	String	2010 Census Alaska Native Regional Corporation FIPS code
ANRCNS10	8	String	2010 Census Alaska Native Regional Corporation ANSI code
GEOID10	7	String	Alaska Native Regional Corporation identifier; a concatenation of 2010 Census state FIPS code and Alaska Native Regional Corporation code
NAME10	100	String	2010 Census Alaska Native Regional Corporation name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for Alaska Native Regional Corporation
LSAD10	2	String	2010 Census legal/statistical area description code for Alaska Native Regional Corporation
CLASSFP10	2	String	2010 Census FIPS class code
MTFCC10	5	String	MAF/TIGER feature class code (G2200)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.1.2 American Indian / Alaska Native / Native Hawaiian (AIANNH) Areas

American Indian, Alaska Native, and Native Hawaiian Area geography and attributes are available in the following shapefile:

American Indian / Alaska Native / Native Hawaiian (AIANNH) Area National Shapefile (2010 Census)

These shapefiles contain both legal and statistical American Indian, Alaska Native, and Native Hawaiian entities for which the Census Bureau publishes data. The legal entities consist of federally recognized American Indian reservations and off-reservation trust lands, state-recognized American Indian reservations, and Hawaiian home land (HHLs). American Indian tribal subdivisions and Alaska Native Regional Corporations (ANRCs) are additional types of legal entities, but are displayed in separate shapefiles discussed in this chapter. The statistical entities displayed in these shapefiles are Alaska Native village statistical areas (ANVSAs), Oklahoma tribal statistical areas (OTSAs), tribal designated statistical areas (TDSAs), and state designated tribal statistical areas (SDTSAs).

In all cases, American Indian, Alaska Native, and Native Hawaiian areas cannot overlap another tribal entity. An exception is made for tribal subdivisions, which subdivide some American Indian entities, and Alaska Native village statistical areas (ANVSAs), which exist within Alaska Native Regional Corporations (ANRCs). In cases where more than one tribe claims jurisdiction over an area, the Census Bureau creates a joint-use area as a separate entity to define this area of multiple claims.

The American Indian / Alaska Native / Native Hawaiian (AIANNH) Area shapefiles contain a unique polygon record for each American Indian reservation or off-reservation trust land, Hawaiian home land, Alaska Native Village statistical area, and American Indian statistical geographic entity. For example, the Fort Peck Indian Reservation will have two records: one for the reservation portion and another for the off-reservation trust land portion. Entities with only a single component will contain a single record. There is always a single record for a Hawaiian home land, Alaska Native Village statistical area, American Indian statistical geographic entity, reservations without any associated off-reservation trust land, and entities that consist only of off-reservation trust land.

Legal Entities

American Indian Reservations—Federal (federal AIRs) are areas that have been set aside by the United States for the use of federally recognized tribes. The exterior boundaries of federal AIRs are more particularly defined in tribal treaties, agreements, executive orders, federal statutes, secretarial orders, and/or judicial determinations. The Census Bureau recognizes federal reservations as territory over which American Indian tribes have governmental authority. These entities are known as colonies, communities, Indian colonies, Indian communities, Indian rancherias, Indian reservations, Indian villages, pueblos, rancherias, ranches, reservations, reserves, settlements, villages, or other descriptions. The Bureau of Indian Affairs (BIA) within the U.S. Department of Interior maintains a list of federally recognized tribes that is published regularly in the *Federal Register*. The Census Bureau contacts tribal government representatives of these federally recognized American Indian tribes to identify the boundaries for their federal reservations. Federal reservations may cross state, county, county subdivision, and/or place boundaries.

To obtain the list of federally recognized tribes and their tribal governments' highest elected officials, please visit the BIA website at: http://www.bia.gov/.

Each federal AIR and reservation equivalent joint-use area is assigned a nationally unique four-digit census code ranging from 0001 through 4999. These census codes are assigned in alphabetical order of AIR names nationwide, except that joint-use areas appear at the end of the code range (4900 to 4999). Each federal AIR and reservation equivalent joint-use area also is assigned a five-digit FIPS code; because FIPS codes are assigned in alphabetical sequence within each state, the FIPS code is usually different in each state for reservations that include territory in more than one state. Federal AIRs and reservation equivalent joint-use areas are also assigned a nationally unique eight-digit ANSI code.

American Indian Reservations—State **(state AIRs) are established by some state governments for tribes recognized by that state. A governor-appointed state liaison provides the names and boundaries for state-recognized American Indian reservations to the Census Bureau. State reservations may cross county, county subdivision, and / or place boundaries.**

Each state American Indian reservation is assigned a nationally unique four-digit census code ranging from 9000 through 9499. Each state AIR also is represented by a five-digit FIPS code in alphabetical order and unique within a state and a nationally unique eight-digit ANSI code.

American Indian Trust Lands **are areas for which the United States holds title in trust for the benefit of a tribe (tribal trust land) or for an individual American Indian tribal member (individual trust land or allotment). Trust lands can be alienated or encumbered only by the owner with the approval of the Secretary of the Interior or his/her authorized representative. Trust lands may be located on (on-reservation) or off an American Indian reservation (off-reservation). The Census Bureau recognizes and tabulates data only for reservations and off-reservation trust lands (ORTLs) because American Indian tribes have governmental authority over these lands. Tribal governmental authority generally is not attached to lands located off the reservation until the lands are placed in trust status. In Census Bureau data tabulations, ORTLs are always associated with a specific federally recognized reservation and/or tribal government. A tribal government appointed liaison provides the name and boundaries of their ORTLs. The Census Bureau does not specifically identify on-reservation trust land, fee land (or land in fee simple status), or restricted fee lands as specific geographic categories and they are not identified as such in the TIGER/Line Shapefiles.**

Hawaiian Home Lands **(HHLs) are areas held in trust for Native Hawaiians by the State of Hawaii, pursuant to the Hawaiian Homes Commission Act of 1920, as amended. Based on a compact between the federal government and the new State of Hawaii in 1959, the Hawaii Admission Act vested land title and responsibility for the trust lands with the State. An HHL is not a governmental unit; rather, a home land is a tract of land with a legally defined boundary that is owned by the State, which, as authorized by the Act, may lease to one or more Native Hawaiians for residential, agricultural, commercial, industrial, pastoral, and/or any other activities authorized by State law. The Census Bureau obtains the names and boundaries for HHLs from the State's Department of Hawaiian Home Lands. The names of the HHLs are based on the traditional ahupua'a names of the Crown and government lands of the Kingdom of Hawaii from which the lands were designated, or from the local name for an area.**

Being lands held in trust, Hawaiian home lands are treated as equivalent to off-reservation trust land areas with an AIANNH area trust land indicator coded as "T". Each Hawaiian HHL is assigned a nationally unique four-digit census code ranging from 5000 through 5499 based on the alphabetical sequence of each HHL name. Each HHL is also represented by a five-digit FIPS code in alphabetical order and unique within Hawaii and a nationally unique eight-digit ANSI code.

Joint-Use Areas**, as applied to any American Indian area by the Census Bureau, means an area that is administered jointly and/or claimed by two or more federally recognized American Indian tribes. The Census Bureau designates both legal and statistical joint-use areas as unique geographic entities for the purpose of presenting statistical data. Joint-use areas now only apply to overlapping federally recognized American Indian reservations and/or off-reservation trust lands, and overlapping Oklahoma tribal statistical areas. No other AIANNH area types have joint-use areas.**

Each is assigned a nationally unique four-digit census code ranging from 4800 through 4999, is represented by a five-digit FIPS code in alphabetical order and unique within a specific state, and a nationally unique eight-digit ANSI code.

Statistical Entities

Alaska Native Village Statistical Areas **(ANVSAs) are a statistical geographic entity that represents the residences, permanent and/or seasonal, for Alaska Natives who are members of or are primarily receiving governmental services from the defining Alaska Native village (ANV) and that are located within the region and vicinity of the ANV's historic and/or traditional location. ANVSAs are intended to represent the relatively densely settled portion of each ANV and ideally should include only an area where Alaska Natives, especially members of the defining ANV, represent a significant proportion of the population during at least one season of the year (at least three consecutive**

months). ANVSAs also ideally should not contain large areas that are primarily unpopulated or do not include concentrations of Alaska Natives, especially members of the defining ANV. ANVSAs are delineated or reviewed by officials of the ANV or, if no ANV official chose to participate in the delineation process, officials of the non-profit Alaska Native Regional Corporation (ANRC) in which the ANV is located. In some cases, if neither the ANV nor ANRC official chose to participate in the delineation process, the Census Bureau reviewed and delineated the ANVSA. An ANVSA may not overlap the boundary of another ANVSA or an American Indian reservation.

Each ANVSA is assigned a nationally unique four-digit census code ranging from 6000 to 7999 based on the alphabetical sequence of each ANVSA's name. Each ANVSA is also represented by a five-digit FIPS code in alphabetical order and unique within Alaska and a nationally unique eight-digit ANSI code.

Joint-Use Areas, as applied to any American Indian area by the Census Bureau, means an area is administered jointly and/or claimed by two or more American Indian tribes. The Census Bureau designates both legal and statistical joint-use areas as unique geographic entities for the purpose of presenting statistical data. Statistical joint-use areas only apply to overlapping Oklahoma tribal statistical areas.

Oklahoma Tribal Statistical Areas (OTSAs) are statistical entities identified and delineated by the Census Bureau in consultation with federally recognized American Indian tribes that formerly had a reservation in Oklahoma. The boundary of an OTSA is generally that of the former reservation in Oklahoma, except where modified by agreements with neighboring federally recognized tribes that are eligible to delineate an OTSA. Tribal subdivisions can exist within the statistical Oklahoma tribal statistical areas. Each OTSA is assigned a nationally unique four-digit census code ranging from 5500 through 5999 based on the alphabetical sequence of each OTSA's name, except that the joint-use areas appear at the end of the code range. Each OTSA also is represented by a five-digit FIPS code in alphabetical order and unique within Oklahoma and a nationally unique eight-digit ANSI code.

State Designated Tribal Statistical Areas (SDTSAs) are statistical entities for state-recognized American Indian tribes that do not have a state-recognized reservation. SDTSAs are identified and delineated for the Census Bureau by a state liaison identified by the governor's office in each state. SDTSAs generally encompass a compact and contiguous area that contains a concentration of people who identify with a state-recognized American Indian tribe and in which there is structured or organized tribal activity. An SDTSA may not be located in more than one state unless the tribe is recognized by both states, and it may not include area within an American Indian reservation, off-reservation trust land, Alaska Native village statistical area, tribal designated statistical area, or Oklahoma tribal statistical area. Note that for Census 2000 these areas were termed State Designated American Indian Statistical Areas (SDAISAs); the term was changed to bring more consistency to tribal statistical area terms. Each SDTSA is assigned a nationally unique four-digit census code ranging from 9500 through 9998 in alphabetical sequence of SDTSA names nationwide. Each SDTSA also is represented by a five-digit FIPS code in alphabetical order and unique within a state and a nationally unique eight-digit ANSI code.

Tribal Designated Statistical Areas (TDSAs) are statistical entities identified and delineated for the Census Bureau by federally recognized American Indian tribes that do not currently have a reservation or off-reservation trust land. A TDSA is intended to be comparable to the AIRs within the same state and/or region, especially those for tribes that are of similar size. A TDSA generally encompasses a compact and contiguous area that contains a concentration of individuals who identify with the delineating federally recognized American Indian tribe and in which there is structured or organized tribal activity. A TDSA may be located in more than one state, but it may not include area within any other AIANNH areas.

Each TDSA is assigned a nationally unique four-digit census code ranging from 8000 through 8999 in alphabetical sequence of TDSA names nationwide. Each TDSA also is represented by a five-digit FIPS code in alphabetical order and unique within a state; because FIPS codes are assigned within each state, the FIPS codes are likely different for each state portion of any TDSAs that extend into more than one state. Each TDSA is also assigned a nationally unique eight-digit ANSI code.

AIANNH Area Codes—the American Indian, Alaska Native, and Native Hawaiian (AIANNH) areas are represented in the TIGER/Line Shapefiles by a four-digit census code field, and a single alphabetic character AIANNH area reservation/statistical area or off-reservation trust land (ORTL) indicator field, shown as COMPTYP (component type). The census codes are assigned in alphabetical order in assigned ranges by AIANNH area type nationwide, except that joint-use areas appear at the end of their applicable code range. ORTLs are assigned the same code as the reservation with which they are associated. ORTLs associated with tribes that do not have a reservation are generally assigned codes based on their associated tribe's name. There is one TIGER/Line Shapefile record created for each unique combination of AIANNH code and component type. Each AIANNH area also is assigned a nationally unique eight-digit ANSI code.

The type of AIANNH area can be identified either by its census code (AIANNHCE), its MAF/TIGER feature class code (MTFCC), or by its FIPS class code (CLASSFP). The range of census codes allocated to each AIANNH area and the valid FIPS class code(s) associated with each are as follows:

Type	Census code Range	Valid FIPS Class Codes	MTFCCs
Federal AIR or ORTL	0001 to 4899	*D2, *D3, *D5,*D8	*G2101, *G2102
Federal AIR/ORTL joint-use area	4900 to 4999	D0	G2170
Hawaiian home land	5000 to 5499	F1	G2120
OTSA	5500 to 5899	D6	G2140
OTSA joint-use area	5900 to 5999	D0	G2170
ANVSA	6000 to 7999	E1	G2130
TDSA	8000 to 8999	D6	G2160
State AIR	9000 to 9499	D4	G2101
SDTSA	9500 to 9998	D9	G2150

Note: MTFCC G2101 can represent both federally and state-recognized areas; the recognition level can be determined using the federal/state recognition flag (AIANNHR) field where "F" is federally recognized and "S" is state-recognized. Joint-use areas are identified uniquely by MTFCC G2170. An "A" in the functional status (FUNCSTAT) field identifies federal AIR/ORTL joint-use areas, while an "S" in the field represents joint-use OTSAs.

*D2: Legal federally recognized American Indian area consisting of reservation only
*D3: Legal federally recognized American Indian area consisting of off-reservation trust land only
*D5: The legal off-reservation trust land portion of a federally recognized American Indian area with both a reservation and off-reservation trustland
*D8: The legal reservation portion of a federally recognized American Indian entity with both a reservation and off-reservation trust land

*G2101: Reservation or AIAN statistical entity
*G2102: American Indian ORTL or Hawaiian home land

Type	Component Type (COMPTYP)
American Indian Trust Land	T
Reservation or Statistical Entity	R

5.1.2.1 American Indian/Alaska Native/Native Hawaiian (AIANNH) Area National Shapefile Record Layout (2010 Census)

File Name: tl_rd13_us_aiannh10.shp

Field	Length	Type	Description
AIANNHCE10	4	String	2010 Census American Indian/Alaska Native/Native Hawaiian area census code
AIANNHNS10	8	String	2010 Census American Indian/Alaska Native/Native Hawaiian area ANSI code
GEOID10	5	String	American Indian/Alaska Native/Native Hawaiian area identifier; a concatenation of 2010 Census American Indian/Alaska Native/Native Hawaiian area census code and reservation/statistical area or off-reservation trust land Hawaiian home land indicator
NAME10	100	String	2010 Census American Indian/Alaska Native/Native Hawaiian area name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for American Indian/Alaska Native/Native Hawaiian area
LSAD10	2	String	2010 Census legal/statistical area description code for American Indian/Alaska Native/Native Hawaiian area
CLASSFP10	2	String	2010 Census FIPS class code
COMPTYP10	1	String	2010 Census American Indian/Alaska Native/Native Hawaiian area reservation/statistical area or off-reservation trust land Hawaiian home land indicator
AIANNHR10	1	String	2010 Census American Indian/Alaska Native/Native Hawaiian area federal/state recognition flag
MTFCC10	5	String	MAF/TIGER feature class code
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.1.3 American Indian Tribal Subdivisions

American Indian Tribal Subdivision geography and attributes are available in the following shapefile:

American Indian Tribal Subdivision (AITS) National Shapefile (2010 Census)

American Indian Tribal Subdivisions **(AITS) are legally defined administrative subdivisions of federally recognized American Indian reservations and/or off-reservation trust lands, or Oklahoma tribal statistical areas (OTSAs). Tribal subdivisions are known as administrative areas, areas, chapters, communities, county districts, districts, segments, or other descriptions. These entities are internal units of self-government or administration that serve social, cultural, and/or economic purposes for the American Indians on the reservations, off-reservation trust lands, or OTSAs. The Census Bureau obtains the boundary and name information for tribal subdivisions from the federally recognized tribal governments.**

American Indian Tribal Subdivision Codes **are represented in the TIGER/Line Shapefiles by a three-digit census code. The Census Bureau assigns the three-digit American Indian tribal subdivision code alphabetically in order and uniquely within each American Indian reservation and/or associated off-reservation trust land, or Oklahoma tribal statistical area (OTSA). Each AITS is also assigned a nationally unique eight-digit ANSI code.**

5.1.3.1 American Indian Tribal Subdivision (AITS) National Shapefile Record Layout (2010 Census)

File Name: tl_rd13_us_aitsn10.shp

Field	Length	Type	Description
AIANNHCE10	4	String	2010 Census American Indian/Alaska Native/Native Hawaiian area census code
TRSUBCE10	3	String	2010 Census American Indian tribal subdivision census code
TRSUBNS10	8	String	2010 Census American Indian tribal subdivision ANSI code
GEOID10	7	String	American Indian tribal subdivision identifier; a concatenation of 2010 Census American Indian/Alaska Native/Native Hawaiian area census code and American Indian tribal subdivision census code
NAME10	100	String	2010 Census American Indian tribal subdivision name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for American Indian tribal subdivision
LSAD10	2	String	2010 Census legal/statistical area description code for American Indian tribal subdivision
CLASSFP10	2	String	2010 Census FIPS class code
MTFCC10	5	String	MAF/TIGER feature class code (G2300)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.2 Blocks (Census Block)

Block geography and attributes are available in the following shapefile:

Block State-based Shapefile (2010 Census)

Census Blocks are statistical areas bounded on all sides by visible features, such as streets, roads, streams, and railroad tracks, and by non-visible boundaries such as city, town, township, and county limits, and short line-of-sight extensions of streets and roads. Generally, census blocks are small in area; for example, a block in a city. Census blocks in suburban and rural areas may be large, irregular, and bounded by a variety of features, such as roads, streams, and/or transmission line rights-of-way. In remote areas census blocks may encompass hundreds of square miles. Census blocks cover all territory in the United States, Puerto Rico, and the Island areas.

Blocks never cross county or census tract boundaries (See Figures 3 and 4). They do not cross the boundaries of any entity for which the Census Bureau tabulates data, including American Indian, Alaska Native, and Native Hawaiian areas, congressional districts, county subdivisions, places, state legislative districts, urbanized areas, urban clusters, school districts, voting districts, ZIP Code Tabulation Areas (ZCTAs) or some special administrative areas such as military installations, and national parks and monuments.

***Census Block Numbers*—Census 2010 blocks are numbered uniquely within the 2010 boundaries of each state/county/census tract with a 4-digit census block number. The first digit of the tabulation block number identifies the block group. Blocks are delineated and renumbered once every ten years. Block numbers are not always permanent throughout the decade. A block boundary can change whenever another geographic boundary changes, such as an incorporated place annexation. If a block splits, a suffix will be added to the block number. For example, block 1000 would become block 1000A and 1000B.**

Census Block Numbers
Block group number 0 to 9—First numeric character
000 to 999—Second, third, and fourth numeric characters

Figure 3. ***Geographic Relationships—Small Area Statistical Entities***
County-Census Tract-Block Group-Block

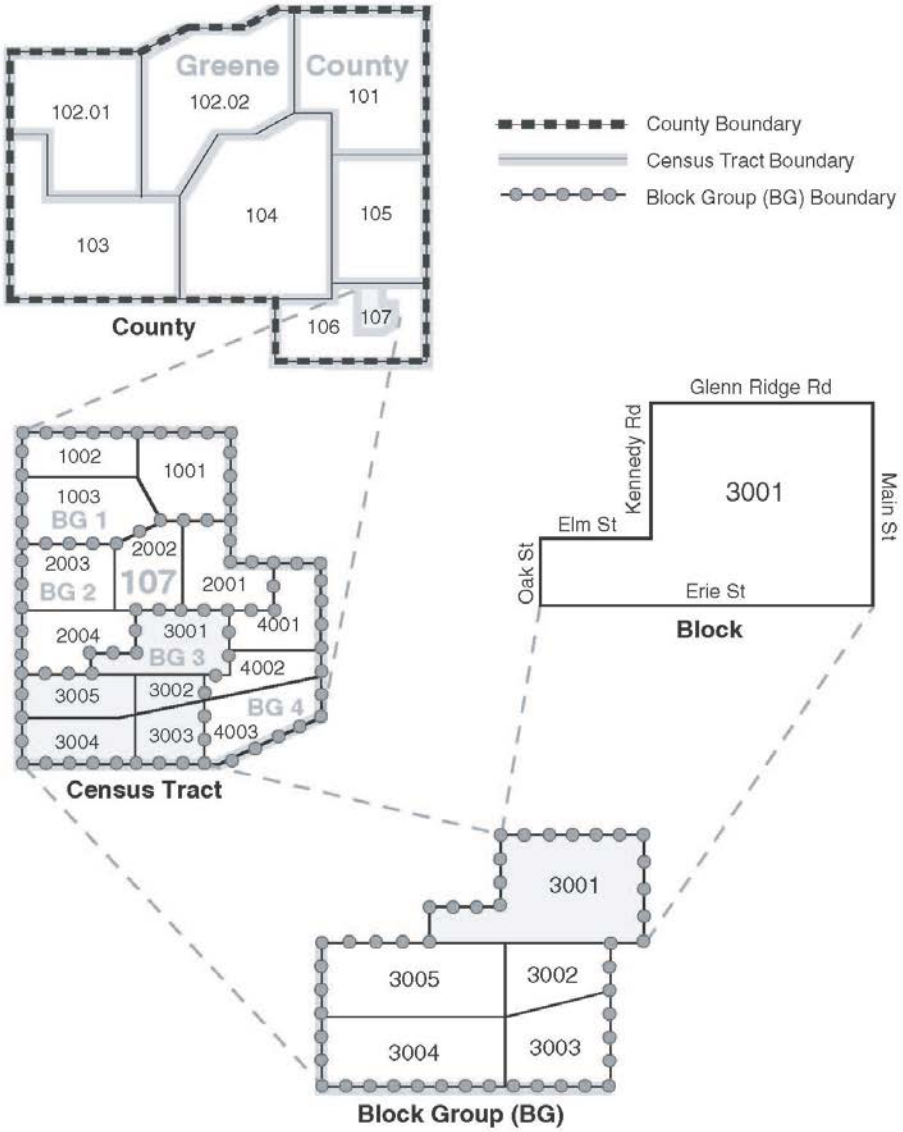
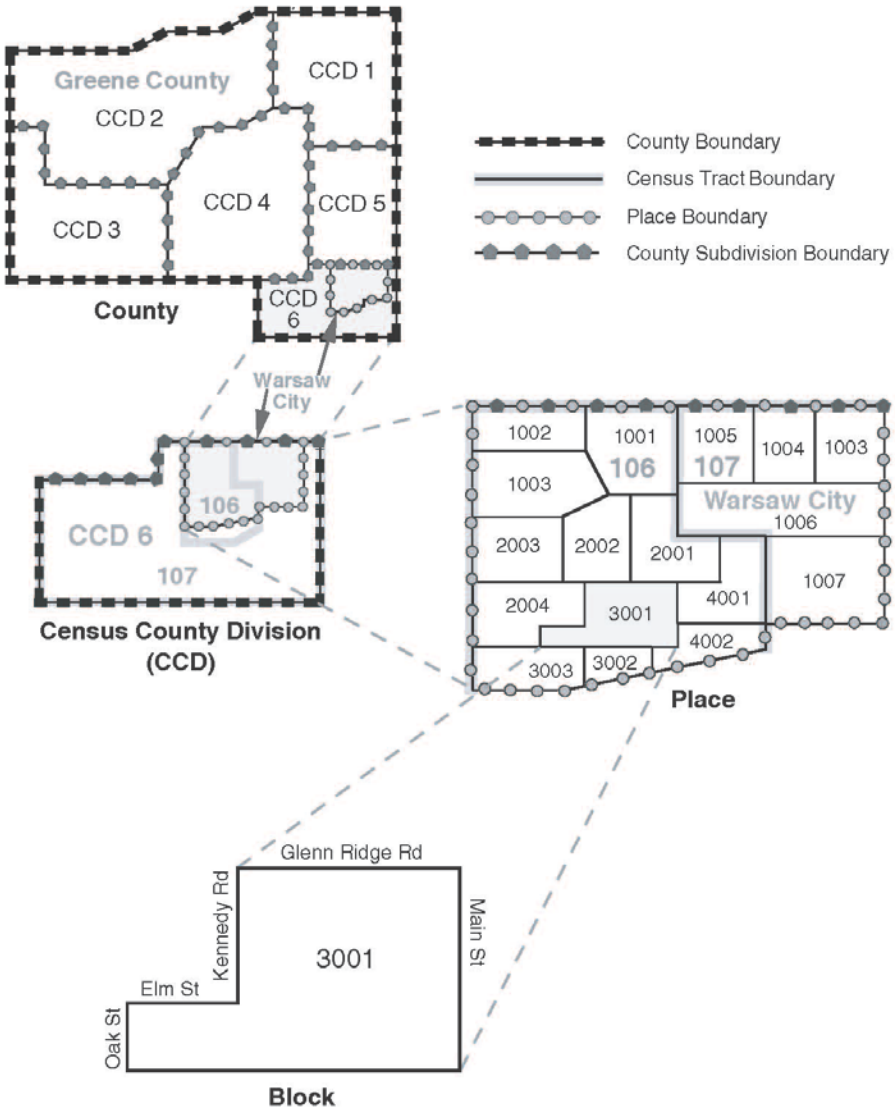


Figure 4. Geographic Relationships—Legal and Statistical Entities
County-County Subdivision-Place-Block



5.2.1 Block State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_tabblock10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
TRACTCE10	6	String	2010 Census census tract code
BLOCKCE10	4	String	2010 Census tabulation block number
GEOID10	15	String	Block identifier; a concatenation of 2010 Census state FIPS code, county FIPS code, census tract code and tabulation block number.
NAME10	10	String	2010 Census tabulation block name; a concatenation of 'Block' and the current tabulation block number
MTFCC10	5	String	MAF/TIGER feature class code (G5040)
UR10	1	String	2010 Census urban/rural indicator
UACE10	5	String	2010 Census urban area code
UATYP10	1	String	2010 Census urban area type
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.3 Block Groups

Block group geography and attributes are available in the following shapefile:

Block Group State-based Shapefile (2010 Census)

Block groups are clusters of blocks within the same census tract that have the same first digit of their 4-digit census block number. For example, blocks 3001, 3002, 3003, …., 3999 in census tract 1210.02 belong to Block Group 3. Block groups generally contain between 600 and 3,000 people, and are used to present sample data for small areas. Most block groups were delineated by local participants in the Census Bureau's Participant Statistical Areas Program. The Census Bureau delineated block groups only where a local or tribal government declined to participate or where the Census Bureau could not identify a potential local participant.

A block group usually covers a contiguous area. Each census tract contains at least one block group and block groups are uniquely numbered within census tract. Within the standard census geographic hierarchy, block groups never cross county or census tract boundaries, but may cross the boundaries of county subdivisions, places, urban areas, voting districts, congressional districts, and American Indian, Alaska Native, and Native Hawaiian areas.

Block groups have a valid range of 0 through 9. Block groups beginning with a zero generally are in coastal and Great Lakes water and territorial seas. Rather than extending a census tract boundary into the Great Lakes or out to the three-mile territorial sea limit, the Census Bureau delineated some census tract boundaries along the shoreline or just offshore. The Census Bureau assigned a default census tract number of zero and block group of zero to the offshore areas not included in regularly numbered census tract areas.

5.3.1 Block Group State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_bg10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
TRACTCE10	6	String	2010 Census census tract code
BLKGRPCE10	1	String	2010 Census block group number
GEOID10	12	String	2010 Census block group identifier; a concatenation of the 2010 Census state FIPS code, county FIPS code, census tract code, and block group number
NAMELSAD10	13	String	2010 Census translated legal/statistical area description and the block group number
MTFCC10	5	String	MAF/TIGER feature class code (G5030)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.4 Census Tracts

Census tract geography and attributes are available in the following shapefile:

Census Tract State-based Shapefile (2010 Census)

Census tracts are small, relatively permanent statistical subdivisions of a county or equivalent entity, and are reviewed and updated by local participants prior to each decennial census as part of the Census Bureau's Participant Statistical Areas Program. The Census Bureau updates census tracts in situations where no local participant existed or where local or tribal governments declined to participate. The primary purpose of census tracts is to provide a stable set of geographic units for the presentation of decennial census data.

Census tracts generally have a population size between 1,200 and 8,000 people with an optimum size of 4,000 people. The spatial size of census tracts varies widely depending on the density of settlement. Census tracts are delineated with the intention of being maintained over a long time so that statistical comparisons can be made from census to census. However, physical changes in street patterns caused by development may require boundary revisions. In addition, census tracts occasionally are split due to population growth, or combined as a result of substantial population decline.

Census tract boundaries generally follow visible and identifiable features. They may follow legal boundaries such as minor civil division (MCD) or incorporated place boundaries in some states and situations to allow for census tract-to-governmental unit relationships where the governmental boundaries tend to remain unchanged between censuses. State and county boundaries always are census tract boundaries in the standard census geographic hierarchy.

In a few rare instances, a census tract may consist of discontiguous areas. These discontiguous areas may occur where the census tracts are coextensive with all or parts of legal entities that are themselves discontiguous.

Census Tract Codes and Numbers—Census tract numbers have up to a 4-digit basic number and may have an optional 2-digit suffix; for example, 1457.02. The census tract numbers (used as names) eliminate any leading zeroes and append a suffix only if required. The 6-character numeric census tract codes, however, include leading zeroes and have an implied decimal point for the suffix. Census tract codes range from 000100 to 998998 and are unique within a county or equivalent area. The Census Bureau reserved the census tract numbering range of 9400 to 9499 for use by American Indian area participants in situations where an American Indian entity crosses county or state lines. The Census Bureau assigned a census tract code of 0000 to some coastal and Great Lakes water

and territorial sea, rather than extend the census tract boundary into the Great Lakes or out to the three-mile limit. This allowed the Census Bureau to provide complete census tract coverage of Current water areas in territorial seas and the Great Lakes. Because of updates since 2000, there are census tracts with code 000000 that now contain land. Census tract suffixes may range from .01 to .98.

The Census Bureau uses suffixes to help identify census tract changes for comparison purposes. Local participants have an opportunity to review the existing census tracts before each census. If local participants split a census tract, the split parts usually retain the basic number, but receive different suffixes. In a few counties, local participants request major changes to, and renumbering of, the census tracts. Changes to individual census tract boundaries usually do not result in census tract numbering changes.

Relationship to Other Geographic Entities—Within the standard census geographic hierarchy, census tracts never cross state or county boundaries, but may cross the boundaries of county subdivisions, places, urban areas, congressional districts, and American Indian, Alaska Native, and Native Hawaiian areas.

Census Tract Numbers and Codes

- 0001 to 9989—Basic number range for census tracts
- 0000—Basic number for census tracts in water areas
- 01 to 98—Suffix codes for census tracts
- 00—Suffix code for census tracts without a suffix

5.4.1 Census Tract State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_tract10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
TRACTCE10	6	String	2010 Census census tract code
GEOID10	11	String	Census tract identifier; a concatenation of 2010 Census state FIPS code, county FIPS code, and census tract code
NAME10	7	String	2010 Census census tract name, this is the census tract code converted to an integer or integer plus two-digit decimal if the last two characters of the code are not both zeros.
NAMELSAD10	20	String	2010 Census translated legal/statistical area description and the census tract name
MTFCC10	5	String	MAF/TIGER feature class code (G5020)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.5 Congressional Districts

Congressional district geography and attributes are available in the following shapefiles:

113th Congressional District National Shapefile
111th Congressional District National Shapefile

113th Congressional District State-based Shapefile
111th Congressional District State-based Shapefile

Congressional Districts are the 435 areas from which people are elected to the U.S. House of Representatives. After the apportionment of congressional seats among the states based on decennial census population counts, each state is responsible for establishing the boundaries of the congressional districts for the purpose of electing representatives.

The 113th Congressional District TIGER/Line Shapefiles contain the 113th and 111th Congressional Districts. All congressional districts appearing in the 113th Congressional District TIGER/Line Shapefiles reflect the information provided to the Census Bureau by the states. The 113th Congressional District shapefile contains the areas in effect January 2013 to 2015. The 111th Congressional District shapefile contains the areas in effect January 2009 to 2011 and are the tabulation congressional districts for the 2010 Census.

Each state has a minimum of one representative in the U.S. House of Representatives. The District of Columbia, Puerto Rico, American Samoa, Guam, the U.S. Virgin Islands, and the Commonwealth of the Northern Mariana Islands have a non-voting delegate in the Congress.

Congressional District Codes—Congressional districts are identified by a 2-character numeric FIPS code. Congressional districts are numbered uniquely within state. The District of Columbia, Puerto Rico and the Island areas have the code of 98, which identifies their status with respect to representation in Congress:

01 to 53—Congressional district codes
00—At large (single district for state)
98—Nonvoting delegate

In Connecticut, Illinois, and Michigan the state participant did not assign the current (113th) congressional districts to cover all of the state or equivalent area. The code "ZZ" has been assigned to areas with no congressional district defined (usually large water bodies). These unassigned areas are treated within state as a single congressional district for purposes of data presentation.

Other Notes on Congressional Districts

- Maryland adjusted the 2010 Census P.L. [94-171] redistricting data for their state by reallocating state prisoner populations to their last known residence. Information on this adjustment is available at: http://www.planning.maryland.gov/redistricting/homes.html
- The state of Hawaii adjusted the 2010 Census P.L. [94-171] redistricting data to remove non-resident military personnel and non-resident students. Information on this adjustment is available at http://hawaii.gov/elections/reapportionment.

5.5.1 113th Congressional District National Shapefile Record Layout

File Name: tl_rd13_us_cd113.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
CD113FP	2	String	113th congressional district FIPS code
GEOID	4	String	113th congressional district identifier; a concatenation of current state FIPS code and the 113th congressional district FIPS code
NAMELSAD	41	String	Current name and the translated legal/statistical area description for congressional district
LSAD	2	String	Current legal/statistical area description code for congressional district
CDSESSN	3	String	113th congressional session code
MTFCC	5	String	MAF/TIGER feature class code (G5200)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

5.5.2 111th Congressional District National Shapefile Record Layout

File Name: tl_rd13_us_cd111.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
CD111FP	2	String	111th congressional district FIPS code
GEOID10	4	String	111th congressional district identifier; a concatenation of 2010 Census state FIPS code, and the 111th congressional district FIPS code
NAMELSAD10	41	String	2010 Census name and the translated legal/statistical area description for congressional district
LSAD10	2	String	2010 Census legal/statistical area description code for congressional district
CDSESSN	3	String	111th congressional session code
MTFCC10	5	String	MAF/TIGER feature class code (G5200)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.5.3 113th Congressional District State-based Shapefile Record Layout

File Name: tl_rd13_<state FIPS>_cd113.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
CD113FP	2	String	113th congressional district FIPS code
GEOID	4	String	113th congressional district identifier; a concatenation of state FIPS code and the 113th congressional district FIPS code
NAMELSAD	41	String	Current name and the translated legal/statistical area description for congressional district
LSAD	2	String	Current legal/statistical area description code for congressional district
CDSESSN	3	String	113th congressional session code
MTFCC	5	String	MAF/TIGER feature class code (G5200)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

5.5.4 111th Congressional District State-based Shapefile Record Layout

File Name: tl_rd13_<state FIPS>_cd111.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
CD111FP	2	String	111th congressional district FIPS code
GEOID10	4	String	111th congressional district identifier; a concatenation of state FIPS code, and the 111th congressional district FIPS code
NAMELSAD10	41	String	2010 Census name and the translated legal/statistical area description for congressional district
LSAD10	2	String	2010 Census legal/statistical area description code for congressional district
CDSESSN	3	String	111th congressional session code

Field	Length	Type	Description
MTFCC10	5	String	MAF/TIGER feature class code (G5200)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.6 Consolidated Cities

Consolidated city geography and attributes are available in the following shapefile:

Consolidated City State-based Shapefile (2010 Census)

Consolidated City—A consolidated government is a unit of local government for which the functions of an incorporated place and its county or minor civil division (MCD) have merged. This action results in both the primary incorporated place and the county or MCD continuing to exist as legal entities, even though the county or MCD performs few or no governmental functions and has few or no elected officials. Where this occurs, and where one or more other incorporated places in the county or MCD continue to function as separate governments, even though they have been included in the consolidated government, the primary incorporated place is referred to as a consolidated city. The Census Bureau classifies the separately incorporated places within the consolidated city as place entities and creates a separate place (balance) record for the portion of the consolidated city not within any other place. Consolidated cities are represented in the 113th Congressional District Census TIGER/Line Shapefiles by a 5 character numeric FIPS code and a National Standard (ANSI) code.

Consolidated City (Balance) Portions refer to the areas of a consolidated city not included in another separately incorporated place. For example, Butte-Silver Bow, MT, is a consolidated city (former Butte city and Silver Bow County) that includes the separately incorporated municipality of Walkerville city. The area of the consolidated city that is not in Walkerville city is assigned to Butte-Silver Bow (balance). The name always includes the "(balance)" identifier. Balance portions of consolidated cities are included in the Place shapefiles.

5.6.1 Consolidated City State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_concity10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
CONCTYFP10	5	String	2010 Census consolidated city FIPS code
CONCTYNS10	8	String	2010 Census consolidated city ANSI code
GEOID10	7	String	Consolidated city identifier; a concatenation of 2010 Census state FIPS code and consolidated city FIPS code
NAME10	100	String	2010 Census consolidated city name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for consolidated city
LSAD10	2	String	2010 Census legal/statistical area description code for consolidated city
CLASSFP10	2	String	2010 Census FIPS class code
MTFCC10	5	String	MAF/TIGER feature class code (G4120)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.7 Counties and Equivalent Entities

County and equivalent entity geography and attributes are available in the following shapefile:

County and Equivalent Entity State-based Shapefile (2010 Census)

Counties and Equivalent Entities are primary legal divisions. In most states, these entities are termed "counties." In Louisiana, these divisions are known as "parishes." In Alaska, the equivalent entities are the organized boroughs, city and boroughs, and municipalities, and for the unorganized areas, census areas. The latter are delineated cooperatively for statistical purposes by the State of Alaska and the Census Bureau. In four states (Maryland, Missouri, Nevada, and Virginia), there are one or more incorporated places that are independent of any county organization and thus constitute primary divisions of their states. These incorporated places are known as independent cities and are treated as county equivalent entities for purposes of data presentation. The District of Columbia and Guam have no primary divisions and each area is considered a county equivalent entity for purposes of data presentation. The Census Bureau treats the following entities as equivalents of counties for purposes of data presentation: municipios in Puerto Rico, districts and islands in America Samoa, municipalities in the Commonwealth of the Northern Mariana Islands, and islands in the U.S. Virgin Islands. Each county or statistically equivalent entity is assigned a three-digit FIPS code that is unique within a state, as well as an eight-digit ANSI code.
The 113th Congressional District TIGER/Line Shapefiles are based on available governmental unit boundaries of the counties and equivalent entities as of January 1, 2010.

Detailed information about changes in the inventory and codes for county and equivalent areas can be found at: http://www.census.gov/geo/www/tiger/ctychng.html.

Core-based Statistical Area (CBSA) Codes **– The 113th Congressional District vintage county and equivalent entity shapefiles also contain fields with codes for Combined Statistical Area, Metropolitan or Micropolitan Statistical Area, and Metropolitan Division. Counties form the building blocks for CBSAs, thus county records can be merged to form these areas without having to acquire the individual CBSA shapefiles.**

5.7.1 County and Equivalent Entity State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_county10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
COUNTYNS10	8	String	2010 Census county ANSI code
GEOID10	5	String	County identifier; a concatenation of 2010 Census state FIPS code and county FIPS code
NAME10	100	String	2010 Census county name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for county
LSAD10	2	String	2010 Census legal/statistical area description code for county
CLASSFP10	2	String	2010 Census FIPS class code
MTFCC10	5	String	MAF/TIGER feature class code (G4020)
CSAFP10	3	String	2010 Census combined statistical area code
CBSAFP10	5	String	2010 Census metropolitan statistical area/micropolitan statistical area code
METDIVFP10	5	String	2010 Census metropolitan division code
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.8 County Subdivisions

County subdivision geography and attributes are available in the following shapefile:

County Subdivision State-based Shapefile (2010 Census)

County subdivisions are the primary divisions of counties and their equivalent entities for the reporting of decennial census data. They include census county divisions, census subareas, minor civil divisions, and unorganized territories. The 113th Congressional District TIGER/Line Shapefiles contain a 5-character numeric FIPS code field for county subdivisions and an 8-character numeric ANSI code.

Legal Entities

***Minor Civil Divisions (MCDs)* are the primary governmental or administrative divisions of a county in many states. MCDs represent many different kinds of legal entities with a wide variety of governmental and/or administrative functions. MCDs include areas variously designated as American Indian reservations, assessment districts, barrios, barrios-pueblo, boroughs, census subdistricts, charter townships, commissioner districts, counties, election districts, election precincts, gores, grants, locations, magisterial districts, parish governing authority districts, plantations, precincts, purchases, supervisor's districts, towns, and townships. The Census Bureau recognizes MCDs in 29 states, Puerto Rico, and the Island areas. The District of Columbia has no primary divisions, and the incorporated place of Washington is treated as an equivalent to an MCD for statistical purposes (it is also considered a state equivalent and a county equivalent).**

In 23 states and the District of Columbia, all or some incorporated places are not part of any MCD. These places also serve as primary legal subdivisions and have a unique FIPS MCD code that is the same as the FIPS place code. The ANSI codes also match for those entities. In other states, incorporated places are part of the MCDs in which they are located, or the pattern is mixed—some incorporated places are independent of MCDs and others are included within one or more MCDs.

The MCDs in 12 states (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin) also serve as general-purpose local governments that generally can perform the same governmental functions as incorporated places. The Census Bureau presents data for these MCDs in all data products for which place data are provided.

In New York and Maine, American Indian reservations (AIRs) exist outside the jurisdiction of any town (MCD) and thus also serve as the equivalent of MCDs for purposes of data presentation.

Statistical Entities

***Census County Divisions (CCDs)* are areas delineated by the Census Bureau in cooperation with state officials and local officials for statistical purposes. CCDs are not governmental units and have no legal functions. CCD boundaries usually follow visible features and, in most cases, coincide with census tract boundaries. The name of each CCD is based on a place, county, or well-known local name that identifies its location. CCDs exist where:**

1) **There are no legally established minor civil divisions (MCDs)**
2) **The legally established MCDs do not have governmental or administrative purposes**
3) **The boundaries of the MCDs change frequently**
4) **The MCDs are not generally known to the public**

CCDs have been established for the following 20 states:

Alabama	Arizona	California	Colorado	Delaware
Florida	Georgia	Hawaii	Idaho	Kentucky
Montana	Nevada	New Mexico	Oklahoma	Oregon
South Carolina	Texas	Utah	Washington	Wyoming

Census Subareas are statistical subdivisions of boroughs, city and boroughs, municipalities, and census areas, the latter of which are the statistical equivalent entities for counties in Alaska. The state of Alaska and the Census Bureau cooperatively delineate the census subareas to serve as the statistical equivalents of MCDs.

Unorganized Territories (UTs) have been defined by the Census Bureau in 9 minor civil division (MCD) states and American Samoa where portions of counties or equivalent entities are not included in any legally established MCD or incorporated place. The Census Bureau recognizes such separate pieces of territory as one or more separate county subdivisions for census purposes. It assigns each unorganized territory a descriptive name, followed by the designation "unorganized territory" and county subdivision FIPS and ANSI codes. Unorganized territories are recognized in the following states and equivalent areas:

Arkansas	Indiana	Iowa	Maine
Minnesota	New York	North Carolina	North Dakota
South Dakota			

Undefined county Subdivisions—In water bodies, primarily Great Lakes waters and territorial sea, legal county subdivisions do not extend to cover the entire county. For these areas, the Census Bureau created a county subdivision with a FIPS code of 00000 and ANSI code of 00000000 named "county subdivision not defined." The following states and equivalent areas have these county subdivisions:

Connecticut	Illinois	Indiana	Maine
Massachusetts	Michigan	Minnesota	New Hampshire
New Jersey	New York	Ohio	Pennsylvania
Rhode Island	Wisconsin	Puerto Rico	

New England City and Town Area (NECTA) Codes — The 113th Congressional District county subdivision shapefiles also contain fields with codes for Combined New England City and Town Area, New England City and Town Area, and New England City and Town Area Division. The NECTAs are delineated by whole county subdivision, thus county subdivision records can be merged to form these areas without having to acquire the individual NECTA shapefiles.

5.8.1 County Subdivision State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_cousub10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
COUSUBFP10	5	String	2010 Census county subdivision FIPS code
COUSUBNS10	8	String	2010 Census county subdivision ANSI code
GEOID10	10	String	County subdivision identifier; a concatenation of 2010 Census state FIPS code, county FIPS code, and county subdivision FIPS code.
NAME10	100	String	2010 Census county subdivision name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description code for county subdivision
LSAD10	2	String	2010 Census legal/statistical area description code for county subdivision
CLASSFP10	2	String	2010 Census FIPS class code
MTFCC10	5	String	MAF/TIGER feature class code (G4040)
CNECTAFP10	3	String	2010 Census combined New England city and town area code
NECTAFP10	5	String	2010 Census New England city and town area code
NCTADVFP10	5	String	2010 Census New England city and town area division code
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area

Field	Length	Type	Description
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.9 Hydrography

Hydrography features and attributes are available by county in the following shapefiles:

Area Hydrography County-based Shapefile
Linear Hydrography County-based Shapefile

The Area Hydrography Shapefile contains the geometry and attributes of both perennial and intermittent area hydrography features, including ponds, lakes, oceans, swamps, glaciers, and the area covered by large streams represented as double-line drainage. Single-line drainage water features can be found in the All Lines Shapefile and Linear Hydrography Shapefile.

The Linear Hydrography shapefile contains all linear hydrography features with "H" (Hydrography) type MTFCC in the MAF/TIGER database by county. The shapefiles are provided at a county geographic extent and in linear elemental feature geometry. The content of the linear hydrography shapefile includes streams/rivers, braided streams, canals, ditches, artificial paths and aqueducts. A linear hydrography feature may include edges with both perennial and intermittent persistence.

The artificial path features may correspond to those in the USGS National Hydrographic Dataset (NHD). However, in many cases the features do not match NHD equivalent feature and will not carry the NHD metadata codes.

Single-line drainage water features include artificial path features that run through double-line drainage features such as rivers and streams, and serve as a linear representation of these features. Shorelines for area hydrography can be found in the All Lines shapefiles with MTFCC set to either "P0002" (shoreline of perennial water feature) or "P0003" (shoreline of intermittent water feature).

5.9.1 Area Hydrography County-based Shapefile Record Layout

File Name: tl_rd13_<state-county FIPS>_areawater.shp

Field	Length	Type	Description
STATEFP	2	String	State FIPS code
COUNTYFP	3	String	County FIPS code
ANSICODE	8	String	Official code for the water body for use by federal agencies for data transfer and dissemination, if applicable
HYDROID	22	String	Area hydrography identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
MTFCC	5	String	MAF/TIGER feature class code
AREALAND	14	Number	Land area
AREAWATER	14	Number	Water area
INTPTLAT	11	String	Latitude of the internal point
INTPTLON	12	String	Longitude of the internal point

5.9.2 Linear Hydrography County-based Shapefile Record Layout

File Name: tl_rd13_<state-county FIPS>_linearwater.shp

Field	Length	Type	Description
ANSICODE	8	String	Official code for use by federal agencies for data transfer and dissemination, if applicable
LINEARID	22	String	Linear hydrography identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
ARTPATH	1	String	Artificial path flag
MTFCC	5	String	MAF/TIGER feature class code

5.10 Landmarks (Area and Point)

Landmark features and attributes are available by state in the following shapefiles:

Area Landmark State-based Shapefile
Point Landmark State-based Shapefile

The Census Bureau includes landmarks in the MAF/TIGER database (MTDB) for locating special features and to help enumerators during field operations. Some of the more common landmark types include area landmarks such as airports, cemeteries, parks, and educational facilities and point landmarks such as schools and churches.

The Census Bureau added landmark features to the database on an as-needed basis and makes no attempt to ensure that all instances of a particular feature were included. The absence of a landmark such as a hospital or prison does not mean that the living quarters associated with that landmark were excluded from the 2010 Census enumeration. The landmarks were not used as the basis for building or maintaining the address list used to conduct the 2010 Census. The Census Bureau systematically adds several types of point landmarks to the MAF/TIGER Database to provide additional locational reference points for census takers in the field. The landmarks include airports, cemeteries, locales, populated places, pillars and summits from the Geographic Names Information System (GNIS). Landmarks from this source have a GNIS ANSI Code to identify them.

Area landmark and area water features can overlap; for example, a park or other special land-use feature may include a lake or pond. In this case, the polygon covered by the lake or pond belongs to a water feature and a park landmark feature. Other kinds of landmarks can overlap as well. Area landmarks can contain point landmarks; but these features are not linked in the TIGER/Line Shapefiles.

Landmarks may be identified by a MAF/TIGER feature class code only and may not have a name. Each landmark has a unique area landmark identifier (AREAID) or point landmark identifier (POINTID) value.

5.10.1 Area Landmark State-based Shapefile Record Layout

File Name: tl_rd13_<state FIPS>_arealm.shp

Field	Length	Type	Description
STATEFP	2	String	State FIPS code
ANSICODE	8	String	Official code for the landmark for use by federal agencies for data transfer and dissemination
AREAID	22	String	Area landmark identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier with a space between each expanded text field
MTFCC	5	String	MAF/TIGER feature class code
ALAND	14	Number	Land area
AWATER	14	Number	Water area
INTPTLAT	11	String	Latitude of the internal point
INTPTLON	12	String	Longitude of the internal point

5.10.2 Point Landmark State-based Shapefile Record Layout

File Name: tl_rd13_<state FIPS>_pointlm.shp

Field	Length	Type	Description
STATEFP	2	String	State FIPS code
ANSICODE	8	String	Official code for the point landmark for use by federal agencies for data transfer and dissemination, if applicable
POINTID	22	String	Point landmark identifier
FULLNAME	100	String	Concatenation of expanded text for prefix type, base name, and suffix type with a space between each expanded text field
MTFCC	5	String	MAF/TIGER feature class code

5.11 Linear Features

Linear elemental features are the spatial representation of 1-dimensional roads, hydrography, railroads, and other miscellaneous features in the MAF/TIGER database. A linear elemental feature can span one edge or multiple connecting edges that share a common name and feature classification (MTFCC) depending on the extent of the linear feature it represents.

More than one linear elemental feature can share the same edge or group of connected edges. For example, an edge may be associated with a linear feature called Oak Street. This same edge may be one of several edges also associated with another linear feature called State Highway 57. The edge in question has two names, Oak Street and State Highway 57. One of these names will be designated as primary and the others alternate names. Usually the common street name (Oak Street) will be primary.

The MAF/TIGER database breaks/ends linear elemental features when the feature name changes. All spelling differences are represented by a new feature. Features will also break at county boundaries, changes in primary/alternate designation, MTFCC, and gaps in the geometry.

Linear features and attributes are available by the county and state in the following shapefiles.

5.11.1 All Lines

Each All Lines shapefile describes the universe of edges that either bound or are included within a county or equivalent entity. The shapefile describes the geometry of each edge along with descriptive attributes and unique identification numbers. These identification numbers provide the means for linking the edges to alternate features their names, address ranges, and the adjacent faces.

All Lines County-based Shapefile

The All Lines shapefile contains visible linear feature edges such as roads, railroads, and hydrography, as well as non-feature edges and non-visible boundaries. Additional attribute data associated with the linear feature edges found in the All Lines shapefiles are available in relationship files that users must download separately.

The All Lines shapefile contains the geometry and attributes of each topological primitive edge. Each edge has a unique TLID (permanent edge identifier) value. The edge's left and right faces can be identified by the TFIDL (permanent face identifier on the left side of the edge) and TFIDR (permanent face identifier on the right side of the edge) attributes which link to the TFID attribute in the Topological Faces shapefile.

The left and right side of an edge is determined by the order of the points that form the edge. An edge is oriented from the start node to the end node. If one is standing on an edge at the start node facing the end node, data listed in the fields carrying a right qualifier would be found to the right of the edge. Data users can employ GIS software to plot the edges as directional vectors with arrows showing the orientation of edges.

In the MAF/TIGER database, edges may represent several types of features. The series of indicator flags (HYDROFLG, ROADFLG, RAILFLG, and OLFFLG) indicate the classes of features that share the edge. For example, a road may have embedded tracks; the corresponding edge will have both the ROADFLG (road feature indicator) and RAILFLG (rail feature indicator) set. Generally, certain feature types appear together on the same edge:

Road and Rail—roads with adjacent tracks, tracks embedded in roadways or tracks located in the median

Rail and Other Linear Feature—rail features located on dams and levees

Road and Other Linear Feature—road features located on dams and levees

The MAF/TIGER feature class code (MTFCC) identifies the specific code for the primary feature on the edge. For edges that represent roads in combination with other features, the MTFCC in the All Lines Shapefile will reflect the road feature.

5.11.1.1 All Lines County-based Shapefile Record Layout

File Name: tl_rd13_<state-county FIPS>_edges.shp

Field	Length	Type	Description
STATEFP	2	String	State FIPS code
COUNTYFP	3	String	County FIPS code
TLID	10	Integer	Permanent edge ID
TFIDL	10	Integer	Permanent face ID on the left of the edge
TFIDR	10	Integer	Permanent face ID on the right of the edge
MTFCC	5	String	MAF/TIGER feature class code of the primary feature for the edge
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier with a space between each expanded text field (as available)
SMID	22	String	Spatial metadata identifier
LFROMADD	12	String	From house number associated with the most inclusive address range on the left side of the edge; SIDE = L
LTOADD	12	String	To house number associated with the most inclusive address range on the left side of the edge; SIDE = L
RFROMADD	12	String	From house number associated with the most inclusive address range on the right side of the edge; SIDE = R
RTOADD	12	String	To house number associated with the most inclusive address range on the right side of the edge; SIDE = R
ZIPL	5	String	ZIP code associated with the most inclusive address range on the left side
ZIPR	5	String	ZIP code associated with the most inclusive address range on the right side
FEATCAT	1	String	General feature classification category
HYDROFLG	1	String	Hydrography feature indicator
RAILFLG	1	String	Rail feature indicator
ROADFLG	1	String	Road feature indicator
OLFFLG	1	String	Other linear feature indicator
PASSFLG	1	String	Special passage flag
DIVROAD	1	String	Divided road flag
EXTTYP	1	String	Extension type
TTYP	1	String	Track type
DECKEDROAD	1	String	Decked road indicator
ARTPATH	1	String	Artificial path indicator
PERSIST	1	String	Hydrographic persistence flag
GCSEFLG	1	String	Short lines flag for geographic corridors
OFFSETL	1	String	Left offset flag
OFFSETR	1	String	Right offset flag
TNIDF	10	Integer	From TIGER node identifier
TNIDT	10	Integer	To TIGER node identifier

5.11.2 Roads

Linear road features and attributes are available in the following shapefiles:

Primary and Secondary Roads State-based Shapefile
All Roads County-based Shapefile

The Primary and Secondary Roads shapefile contains all linear street features with MTFCC of "S1100" and "S1200" in the MAF/TIGER database. The shapefiles are provided at a State geographic extent and in linear elemental feature geometry. Secondary roads are main arteries, usually in the U.S. Highway, State Highway, or County Highway system. These roads have one or more lanes of traffic in each direction, may or may not be divided, and usually have at-grade intersections with many other roads and driveways. They often have both a local name and a route number.

The content of the All Roads shapefile includes primary roads, secondary roads, local neighborhood roads, rural roads, city streets, vehicular trails (4WD), ramps, service drives, walkways, stairways, alleys, and private roads. The All Roads shapefile contains all linear street features with "S" (Street) type MTFCCs in the MAF/TIGER database. The shapefiles are provided at a County geographic extent and in linear elemental feature geometry.

The street MTFCC may be misclassified for some street features in MAF/TIGER. The default street type MTFCC S1400 was used in MAF/TIGER Accuracy Improvement Program (MTAIP) and other update operations if the data source used to update MAF/TIGER did not have a comparable classification code.

Note that the LINEARID can be used to link the linear features back to the Featnames table and from there the TLID can relate the feature back to the edges shapefile.

5.11.2.1 Primary and Secondary Roads State-based Shapefile Record Layout

File Name: tl_rd13_<state FIPS>_prisecroads.shp

Field	Length	Type	Description
LINEARID	22	String	Linear feature identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
RTTYP	1	String	Route type code
MTFCC	5	String	MAF/TIGER feature class code

5.11.2.2 All Roads County-based Shapefile Record Layout

File Name: tl_rd13_<state-county FIPS>_roads.shp

Field	Length	Type	Description
LINEARID	22	String	Linear feature identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
RTTYP	1	String	Route type code
MTFCC	5	String	MAF/TIGER feature class code

5.12 Military Installations

Military installation geography and attributes are available in the following shapefile:

Military Installation National Shapefile

The Census Bureau includes landmarks such as military installations in the MAF/TIGER database for locating special features and to help enumerators during field operations. The Census Bureau added landmark features to the database on an as-needed basis and made no attempt to ensure that all instances of a particular feature were included. For additional information about area landmarks, please see Section 5.10, Landmarks (Area and Point).

This file does not include the three point landmarks identified as military installation features in the MAF/TIGER database. These point landmarks are included in the Point Landmark Shapefile.

Although almost all military installations have assigned 8-character National Standard (ANSI) codes, the Census Bureau has not loaded any of this data into the MAF/TIGER database. The 2010 military shapefiles do not include this ANSICODE.

5.12.1 Military Installation National Shapefile Record Layout

File Name: tl_rd13_us_mil.shp

Field	Length	Type	Description
ANSICODE	8	String	Official code for the landmark for use by federal agencies for data transfer and dissemination
AREAID	22	String	Area landmark identifier
FULLNAME	100	String	Concatenation of expanded text for prefix qualifier, prefix direction, prefix type, base name, suffix type, suffix direction, and suffix qualifier (as available) with a space between each expanded text field
MTFCC	5	String	MAF/TIGER feature class code
ALAND	14	Number	Land area
AWATER	14	Number	Water area
INTPTLAT	11	String	Latitude of the internal point
INTPTLON	12	String	Longitude of the internal point

5.13 Places

Place geography and attributes are available by state in the following shapefile:

Place State-based Shapefile (2010 Census)

The TIGER/Line Shapefiles include both incorporated places (legal entities) and census designated places (statistical entities).

Incorporated Places are those reported to the Census Bureau as legally in existence as of January 1, 2010, under the laws of their respective states. An incorporated place is established to provide governmental functions for a concentration of people as opposed to a minor civil division (MCD), which generally is created to provide services or administer an area without regard, necessarily, to population. Places may extend across county and county subdivision boundaries, but never across state boundaries. An incorporated place usually is a city, town, village, or borough, but can have other legal descriptions. For census purposes, incorporated places exclude:

- The boroughs in Alaska (treated as equivalents of counties)
- Towns in the New England states, New York, and Wisconsin (treated as MCDs)
- The boroughs in New York (treated as MCDs)

Census Designated Places (CDPs) are the statistical counterparts of incorporated places. CDPs are delineated to provide data for settled concentrations of population that are identifiable by name, but are not legally incorporated under the laws of the state in which they are located. The boundaries

usually are defined in cooperation with local partners as part of the Census Bureau's Participant Statistical Areas Program, or in cooperation with tribal officials as part of the Tribal Statistical Areas Program. The boundaries of CDPs, which usually coincide with visible features or the boundary of an adjacent incorporated place or another legal entity boundary, have no legal status, nor do these places have officials elected to serve traditional municipal functions. CDP boundaries may change from one decennial census to the next with changes in the settlement pattern; a CDP with the same name as in an earlier census does not necessarily have the same boundary. There are no population size requirements for CDPs. In the nine states of the Northeast (Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont) as well as Michigan, Minnesota, and Wisconsin, a CDP may represent a densely settled concentration of population within a town or township; in other instances, an entire town or township may be defined as a CDP.

Hawaii is the only state that has no incorporated places recognized by the Census Bureau. All places shown in data products for Hawaii are CDPs. By agreement with the State of Hawaii, the Census Bureau does not show data separately for the city of Honolulu, which is coextensive with Honolulu County. In Puerto Rico, which also does not have incorporated places, the Census Bureau recognizes only CDPs. The CDPs in Puerto Rico are called comunidades or zonas urbanas. Guam and the Commonwealth of the Northern Mariana Islands also have only CDP's.

Place Codes—The FIPS place code uniquely identifies a place within a state. If place names are duplicated within a state and they represent distinctly different areas, a separate code is assigned to each place name alphabetically by the primary county in which each place is located, or, if both places are in the same county, alphabetically by their legal descriptions (for example, "city" before "village"). All places also have an eight-character ANSI code.

Dependent and Independent Places—Depending on the state, incorporated places are either dependent within, or independent of, county subdivisions, or there is a mixture of dependent and independent places in the state. Dependent places are part of the county subdivision; the county subdivision code of the place is the same as that of the underlying county subdivision(s), but is different from the FIPS place code. Independent places are not part of any minor civil division (MCD) and serve as primary county subdivisions. The independent place FIPS code usually is the same as that used for the MCD for the place. The only exception is if the place is independent of the MCDs in a state in which the FIPS MCD codes are in the 90000 range. Then, the FIPS MCD and FIPS place codes will differ. CDPs are always dependent within county subdivisions and all places are dependent within statistical county subdivisions.

Independent Cities- Baltimore city, MD; St. Louis city, MO; Carson city, NV; and all 39 cities in Virginia are not part of any surrounding county and are treated as both equivalent to a county and an MCD (in MCD states). The FIPS code for St. Louis city is the same as the FIPS county subdivision code. All the others have differing FIPS place and county subdivision codes. At the county level, independent cities have a
three-digit county code of 500 or higher.

Geographic Corridors and Offset Geographic Boundaries—A geographic corridor (formerly called corporate corridor) is a narrow, linear part of an incorporated place (or in a very few instances, another type of legal entity). The geographic corridor includes the street and/or right-of-way, or a portion of the street and/or right-of-way within the incorporated place. It excludes from the incorporated place those structures such as houses, apartments, or businesses that front along the street or road.

A *geographic limit offset boundary (formerly called corporate limit offset boundary)* exists where the incorporated place lies on only one side of the street, and may include all or part of the street and/or the right-of-way. It does not include the houses or land that adjoins the side of the street with the geographic limit offset boundary. It is possible to have two or more geographic limit offset boundaries in the same street or right-of-way. Geographic limit offset boundaries use the same map symbology as non-offset boundaries. Figures 5 and 6 depict geographic corridors and geographic offset limits.

Geographic corridor address ranges are related by using the All Lines Shapefile and Address Ranges Relationship File permanent edge identifier (TLID) to the corridor bounding edge adjacent to the

road edge. The street names are related to the address ranges on the geographic corridor bounding edges through the Address Range-Feature Name Relationship File. By assigning the address range to the geographic corridor edge rather than the road edge, structures will geocode correctly outside of the geographic corridor.

Consolidated City (Balance) Portions refer to the areas of a consolidated city not included in another separately incorporated place. For example, Butte-Silver Bow, MT, is a consolidated city (former Butte city and Silver Bow County) that includes the separately incorporated municipality of Walkerville city. The area of the consolidated city that is not in Walkerville city is assigned to Butte-Silver Bow (balance). The name always includes the "(balance)" identifier. Balance portions of consolidated cities are included in the Place shapefiles.

Figure 5. ***Geographic Corridors—Overview***

This diagram, using symbology typical of a census map, shows a geographic corridor linking the two larger areas of Place 38520 (shading has been added to highlight the actual area within the corporate limits). Part of the geographic limit along Orange St is an offset boundary. A geographic limit offset covers only one side of the street or right–of–way, not the entire street or right–of–way, as is the case with a geographic corridor.

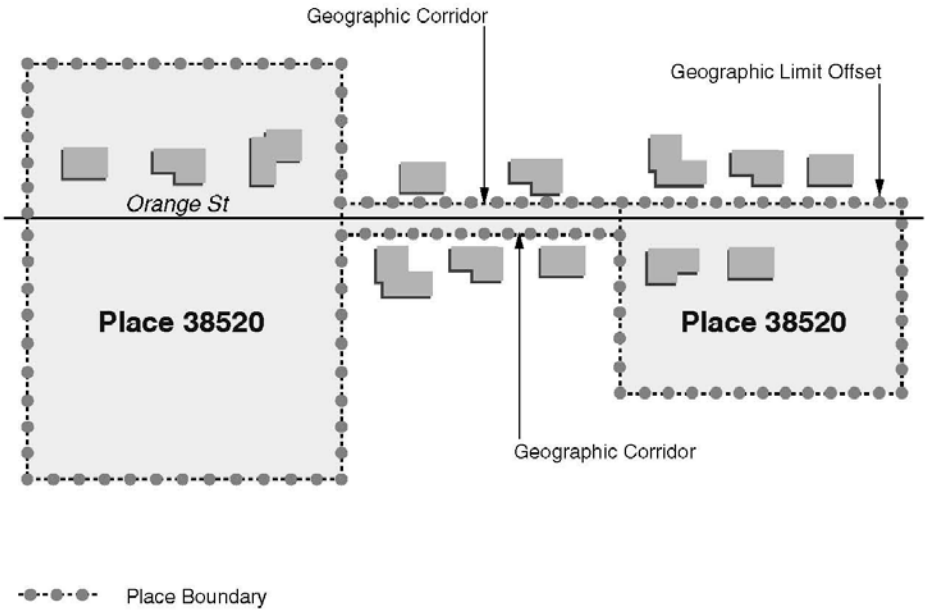
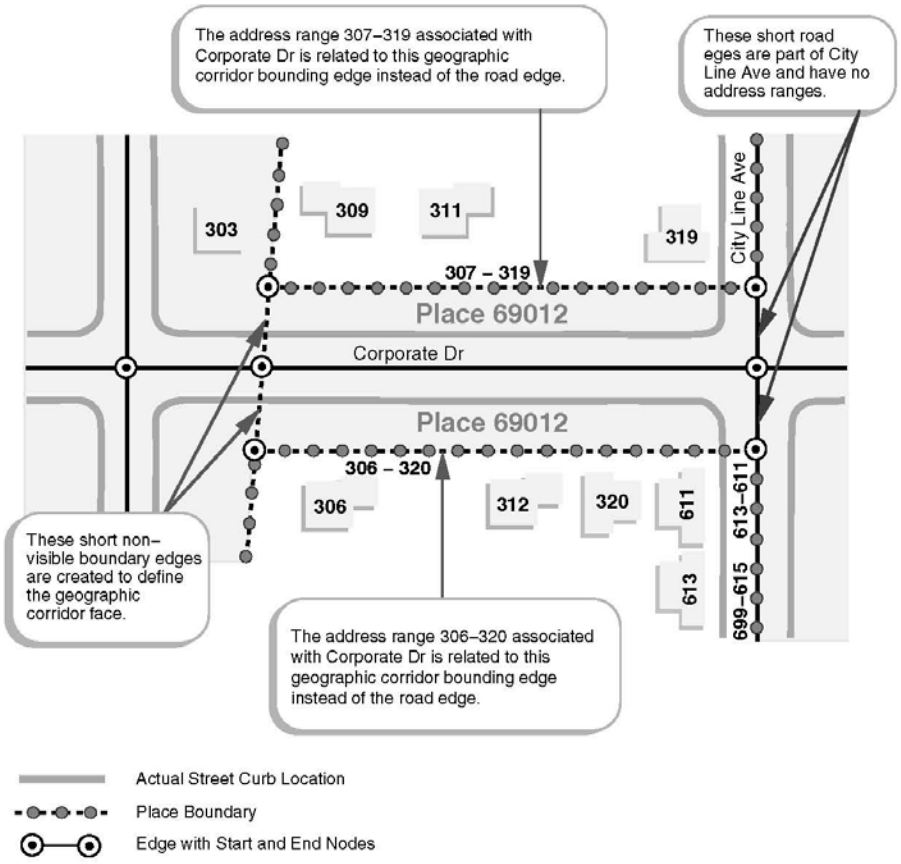


Figure 6. Geographic Corridors Address Ranges

This diagram shows the address ranges associated with a geographic corridor that runs along Corporate Dr. In order to correctly geocode structures outside the geographic corridor in the correct block and place, the address ranges associated with Corporate Dr are located on and related to the geographic corridor bounding edge instead of the road edge. For example, 311 Corporate Dr is located outside the geographic limits. Using address ranges on the road edge for Corporate Dr will incorrectly geocode the structure to Place 69012. Assigning the address ranges to the geographic corridor edge along side Corporate Dr. will correctly geocode the structure to the block outside of Place 69012. Note that the geographic corridor edge splits City Line Ave road edge at one end of the corridor. In this case, the road edge outside of the geographic corridor is assigned the address range and the road edge for City Line Ave inside the corridor does not have address ranges.



5.13.1 Place State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_place10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
PLACEFP10	5	String	2010 Census place FIPS code
PLACENS10	8	String	2010 Census place ANSI code
GEOID10	7	String	Place identifier; a concatenation of the 2010 Census state FIPS code and place FIPS code
NAME10	100	String	2010 Census place name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for place
LSAD10	2	String	2010 Census legal/statistical area description code for place
CLASSFP10	2	String	2010 Census FIPS class code
PCICBSA10	1	String	2010 Census metropolitan or micropolitan statistical area principal city indicator
PCINECTA10	1	String	2010 Census New England city and town area principal city indicator
MTFCC10	5	String	G4110 (incorporated place) and G4210 (census designated place)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.14 School Districts (Elementary, Secondary, and Unified)

School district geography and attributes are available by state in the following shapefiles:

Elementary School District State-based Shapefile (2010 Census)

Secondary School District State-based Shapefile (2010 Census)

Unified School District State-based Shapefile (2010 Census)

School Districts are single-purpose administrative units within which local officials provide public educational services for the area's residents. The Census Bureau obtains school district boundaries, names, local education agency codes, grade ranges, and school district levels biennially from state school officials. The Census Bureau collects this information for the primary purpose of providing the U.S. Department of Education with annual estimates of the number of children in poverty within each school district, county, and state. This information serves as the basis for the Department of Education to determine the annual allocation of Title I funding to states and school districts.

The 113th Congressional District TIGER/Line Shapefiles include separate shapefiles for elementary, secondary, and unified school districts. The 113th Congressional District shapefiles contain information from the 2009-2010 school year. The 2009-2010 school districts represent districts in operation as of January 1, 2010.

The elementary school districts provide education to the lower grade/age levels and the secondary school districts provide education to the upper grade/age levels. The unified school districts are districts that provide education to children of all school ages. In general, where there is a unified school district, no elementary or secondary school district exists (see exceptions described below), and where there is an elementary school district the secondary school district may or may not exist (see explanation below). In addition to regular functioning school districts, the TIGER/Line Shapefiles contain pseudo-school districts (see description below).

The Census Bureau's representation of school districts is based on the grade ranges for which the school district is *financially* responsible, which may or may not be the grade ranges that a school district *operates*. (The grade range that reflects financial responsibility is important for the allocation of Title 1 funds.) A typical example would be a school district that operates schools for children in grades Kindergarten (KG)-8, and pays for a neighboring school district to educate children in grades 9–12. The first school district is operationally responsible for grades K-8, but financially responsible for grades KG-12. Therefore, the Census Bureau would define the grade range for that school district as KG-12. If an elementary school district is financially responsible for grades KG-12 or Pre-Kindergarten (PK)–12, there will be no secondary school district represented for that area. In cases, where an elementary school district is financially responsible for only lower grades, there is generally a secondary school district that is financially responsible for providing educational services for the upper grades.

The following are exceptions to the above information:

The Census Bureau depicts the State of Hawaii as one unified school district and the five counties that represent the five boroughs of New York city as one unified school district.

In the school district shapefiles, California, Georgia, Illinois, Kentucky, Massachusetts, South Carolina, Tennessee, and Texas contain pseudo-secondary school districts that represent regular unified school districts in areas where the unified school districts share financial responsibility service with elementary school districts. These pseudo-secondary school districts were created, and linked to real unified school districts in order for the Census Bureau to allocate the high school aged children to the unified school districts. The Census Bureau could not assign the official unified school district codes, but had to create pseudo-school district codes to represent a service area where the unified school district is financially responsible for less than the entire KG-12 grade range. In these areas, there were no regular functioning secondary school districts serving the area, and the elementary school districts in these areas were not paying tuition to the unified school districts (that is, the elementary school districts' financial responsibilities did not extend to grade 12).

A list of these pseudo-secondary school districts and their codes appears in Appendix B.

School District Codes—The 113th Congressional District TIGER/Line Shapefiles contain 5-character numeric school district codes. The value 99998 is a school district code which is used for some large bodies of water, and 99997 is a school district code assigned to land where no official school district is defined by a state. The school district codes are the local education agency codes used by the U.S. Department of Education and are unique within a state.

School District Names— The names of school districts include their description and no other field (NAMELSAD) is required.

5.14.1 Elementary School District State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_elsd10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
ELSDLEA10	5	String	2010 Census elementary school district local education agency code
GEOID10	7	String	School district identifier; a concatenation of the 2010 Census state FIPS code and elementary school district local education agency code
NAME10	100	String	2010 Census elementary school district name
LSAD10	2	String	2010 Census legal/statistical area description code for elementary school district
LOGRADE10	2	String	2010 Census lowest grade covered by school district
HIGRADE10	2	String	2010 Census highest grade covered by school district
MTFCC10	5	String	MAF/TIGER feature class code (G5400)
SDTYP10	1	String	2010 Census school district type

Field	Length	Type	Description
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.14.2 Secondary School District State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_scsd10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
SCSDLEA10	5	String	2010 Census secondary school district local education agency code
GEOID10	7	String	School district identifier; a concatenation of the 2010 Census state FIPS code and secondary school district local education agency code
NAME10	100	String	2010 Census secondary school district name
LSAD10	2	String	2010 Census legal/statistical area description code for secondary school district
LOGRADE10	2	String	2010 Census lowest grade covered by school district
HIGRADE10	2	String	2010 Census highest grade covered by school district
MTFCC10	5	String	MAF/TIGER feature class code (G5410)
SDTYP10	1	String	2010 Census school district type
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.14.3 Unified School District State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_unsd10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
UNSDLEA10	5	String	2010 Census unified school district local education agency code
GEOID10	7	String	School district identifier; a concatenation of the 2010 Census state FIPS code and unified school district local education agency code
NAME10	100	String	2010 Census unified school district name
LSAD10	2	String	2010 Census legal/statistical area description code for unified school district
LOGRADE10	2	String	2010 Census lowest grade covered by school district
HIGRADE10	2	String	2010 Census highest grade covered by school district
MTFCC10	5	String	MAF/TIGER feature class code (G5420)
SDTYP10	1	String	2010 Census school district type
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.15 States and Equivalent Entities

State and equivalent entity geography and attributes are available in the following shapefiles:

State and Equivalent Entity National Shapefile (2010 Census)

State and Equivalent Entity State-based Shapefile (2010 Census)

States and Equivalent Entities are the primary governmental divisions of the United States. In addition to the fifty states, the Census Bureau treats the District of Columbia, Puerto Rico, and the Island areas (American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands) as the statistical equivalents of states for the purpose of data presentation. Census regions and divisions consist of groupings of states and equivalent entities. The codes for these areas are included in the state shapefiles and the state records can be merged to form those areas.

5.15.1 State and Equivalent Entity National Shapefile Record Layout (2010 Census)

File Name: tl_rd13_us_state10.shp

Field	Length	Type	Description
REGION10	2	String	2010 Census region code
DIVISION10	2	String	2010 Census division code
STATEFP10	2	String	2010 Census state FIPS code
STATENS10	8	String	2010 Census state ANSI code
GEOID10	2	String	State identifier; state FIPS code
STUSPS10	2	String	2010 Census United States Postal Service state abbreviation
NAME10	100	String	2010 Census state name
LSAD10	2	String	2010 Census legal/statistical area description code for state
MTFCC10	5	String	MAF/TIGER feature class code (G4000)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.15.2 State and Equivalent Entity State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_state10.shp

Field	Length	Type	Description
REGION10	2	String	2010 Census region code
DIVISION10	2	String	2010 Census division code
STATEFP10	2	String	2010 Census state FIPS code
STATENS10	8	String	2010 Census state ANSI code
GEOID10	2	String	State identifier; state FIPS code
STUSPS10	2	String	2010 Census United States Postal Service state abbreviation
NAME10	100	String	2010 Census state name
LSAD10	2	String	2010 Census legal/statistical area description code for state
MTFCC10	5	String	MAF/TIGER feature class code (G4000)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.16 State Legislative Districts (Upper and Lower Chambers)

State legislative district geography and attributes are available by state in the following shapefiles:

State Legislative District Lower Chamber (SLDL) State-based Shapefile (Current)

State Legislative District Upper Chamber (SLDU) State-based Shapefile (Current)

State legislative districts are the areas from which members are elected to state or equivalent entity legislatures. The state legislative district embodies the upper (senate—SLDU) and lower (house—SLDL) chambers of the state legislature. The Census Bureau first reported data for state legislative districts as part of the 2000 Public Law (P.L.) 94-171 Redistricting Data File for the states that chose to submit them.

State legislative districts (2012 Election Cycle)

All 50 states, plus the District of Columbia and Puerto Rico, participated in Phase 4 of the 2010 Census Redistricting Program, as part of P.L. 94-171. They voluntarily provided the Census Bureau with the 2012 election cycle boundaries, codes, and in some cases names for their state legislative districts.

Nebraska has a unicameral legislature and the District of Columbia has a single council, both of which the Census Bureau treats as upper-chamber legislative areas for the purpose of data presentation. Therefore, there are no data by the lower house of the state legislative districts for either Nebraska or the District of Columbia.

State Legislative District Codes

A unique 3-character census code, identified by state participants, is assigned to each state's legislative district upper (senate) and lower (house) within a state. In Connecticut, Illinois, Louisiana, Maine, Maryland, Massachusetts, Michigan, Ohio, and Puerto Rico, the state participant did not assign the current state legislative districts to cover all of the state or equivalent area. The code "ZZZ" has been assigned to areas with no state legislative districts defined (usually large water bodies). These unassigned areas are treated within state as a single state legislative district for purposes of data presentation.

Other Notes on State Legislative Districts

- **The state of Ohio generated their state legislative plans using custom geography from the state's *Ohio Common and Unified Redistricting Database* produced by Cleveland State University. These shapefiles approximate those plans using Census Bureau geography.**
- **The states of Maryland and New York adjusted the 2010 Census P.L. [94-171] redistricting data for their respective states by reallocating state prisoner populations to their last known residence. Information on these adjustments is available by visiting each state's website: MD http://www.planning.maryland.gov/redistricting/homes.html ; NY http://www.latfor.state.ny.us/**
- **The state of Hawaii adjusted the 2010 Census P.L. [94-171] redistricting data to remove non-resident military personnel and non-resident students. Information on this adjustment is available at http://hawaii.gov/elections/reapportionment.**
- **The state of Kansas adjusted the 2010 Census P.L. [94-171] redistricting data to exclude non-resident students and non-resident military personnel and to include resident students and members of the military at the place of their permanent residence for state legislative redistricting. Information on this adjustment is available at http://redistricting.ks.gov/index.html.**

5.16.1 State Legislative District Lower Chamber (SLDL) State-based Shapefile Record Layout (Current)

File Name: tl_rd13_<state FIPS>_sldl.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
SLDLST	3	String	Current state legislative district lower chamber code
GEOID	5	String	State legislative district lower chamber identifier; a concatenation of the current state FIPS code and state legislative district lower chamber code
NAMELSAD	100	String	Current name and the translated legal/statistical area description for state legislative district lower chamber
LSAD	2	String	Current legal/statistical area description code for state legislative district lower chamber
LSY	4	String	Legislative session year
MTFCC	5	String	MAF/TIGER feature class code (G5220)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

5.16.2 State Legislative District Upper Chamber (SLDU) State-based Shapefile Record Layout (Current)

File Name: tl_rd13_<state FIPS>_sldu.shp

Field	Length	Type	Description
STATEFP	2	String	Current state FIPS code
SLDUST	3	String	Current state legislative district upper chamber code
GEOID	5	String	State legislative district upper chamber identifier; a concatenation of the current state FIPS code and state legislative district upper chamber code
NAMELSAD	100	String	Current name and the translated legal/statistical area description for state legislative district upper chamber
LSAD	2	String	Current legal/statistical area description code for state legislative district upper chamber
LSY	4	String	Legislative session year
MTFCC	5	String	MAF/TIGER feature class code (G5210)
FUNCSTAT	1	String	Current functional status
ALAND	14	Number	Current land area
AWATER	14	Number	Current water area
INTPTLAT	11	String	Current latitude of the internal point
INTPTLON	12	String	Current longitude of the internal point

5.17 Subminor Civil Divisions

Subminor civil division (Sub-MCD) geography and attributes are available in Puerto Rico in the following shapefile:

SubMinor Civil Division State-based Shapefile (2010 Census)

For the 113th Congressional District TIGER/Line Shapefiles, sub-MCDs are available in Puerto Rico. The sub-MCDs in Puerto Rico are termed subbarrios and are legally defined subdivisions of minor civil divisions (MCDs) named barrios-pueblo and barrios. Subbarrios do not exist within every MCD in Puerto Rico nor do they necessarily cover the entire area of an MCD where they do exist. The boundaries of the subbarrios are as of January 1, 2010 and were provided to the Census Bureau by the Puerto Rico Planning Board.

The 113th Congressional District TIGER/Line Shapefiles contain the 5-character FIPS codes for sub-MCDs as well as 8-character ANSI codes.

5.17.1 Subminor Civil Division State-based Shapefile Record Layout (2010 Census)

File Name: tl_rd13_72_submcd10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
COUSUBFP10	5	String	2010 Census county subdivision FIPS code
SUBMCDFP10	5	String	2010 Census subminor civil division FIPS code
SUBMCDNS10	8	String	2010 Census subminor civil division ANSI code
GEOID10	15	String	Subminor civil division identifier; a concatenation of 2010 Census state FIPS code, county FIPS code, county subdivision FIPS code, and subminor civil division FIPS code
NAME10	100	String	2010 Census subminor civil division name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for subminor civil division
LSAD10	2	String	2010 Census legal/statistical area description code for subminor civil division
CLASSFP10	2	String	2010 Census FIPS class code
MTFCC10	5	String	MAF/TIGER feature class code (G4060)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.18 Topological Faces (Polygons with All Geocodes)

Topological face information is available in the following shapefile:

Topological Faces (Polygons with All Geocodes) Shapefile

The Topological Faces shapefile contains the attributes of each topological primitive face.

5.18.1 Topological Faces (Polygons with All Geocodes) Shapefile Record Layout

File Name: tl_rd13_<state-county FIPS>_faces.shp

Field	Length	Type	Description
TFID	10	Integer	Permanent face ID
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
TRACTCE10	6	String	2010 Census census tract code
BLKGRPCE10	1	String	2010 Census block group number
BLOCKCE10	4	String	2010 Census tabulation block number
COUSUBFP10	5	String	2010 Census county subdivision FIPS code
SUBMCDFP10	5	String	2010 Census subminor civil division FIPS code
CONCTYFP10	5	String	2010 Census consolidated city FIPS code
PLACEFP10	5	String	2010 Census place FIPS code
AIANNHFP10	5	Number	2010 Census American Indian/Alaska Native/Native Hawaiian area FIPS code
AIANNHCE10	4	String	2010 Census American Indian/Alaska Native/Native Hawaiian area census code
COMPTYP10	1	String	2010 Census American Indian/Alaska Native/Native Hawaiian area reservation/statistical area or off-reservation trust land Hawaiian home land indicator
TRSUBFP10	5	Number	2010 Census American Indian tribal subdivision FIPS code
TRSUBCE10	3	String	2010 Census American Indian tribal subdivision code
ANRCFP10	5	String	2010 Census Alaska Native Regional Corporation FIPS code
ELSDLEA10	5	String	2010 Census elementary school district local education agency code
SCSDLEA10	5	String	2010 Census secondary school district local education agency code
UNSDLEA10	5	String	2010 Census unified school district local education agency code
UACE10	5	String	2010 Census urban area code
CD111FP	2	String	111th congressional district FIPS code
CD113FP	2	String	113th congressional district FIPS code
SLDUST	3	String	Current state legislative district upper chamber code
SLDLST	3	String	Current state legislative district lower chamber code
VTDST10	6	String	2010 Census voting district code
ZCTA5CE10	5	String	2010 Census 5-digit ZCTA code
UGACE10	5	String	2010 Census urban growth area code
LWFLAG	1	String	Land/water flag
OFFSET	1	String	Geographic corridor/offset flag
ATOTAL	14	Number	Total Area
INTPTLAT	11	String	Latitude of the internal point
INTPTLON	12	String	Longitude of the internal point

5.19 Urban Areas

Urban area geography and attributes are available in the following shapefile:

Urban Area National Shapefile (2010 Census)

For the 2010 Census, the Census Bureau classified as urban, all territory, population, and housing units located within urbanized areas (UAs) and urban clusters (UCs), both defined using the same criteria. The Census Bureau delineates UA and UC boundaries that represent densely developed territory, encompassing residential, commercial, and other non-residential urban land uses. In general, this territory consists of areas of high population density and urban land use resulting in a representation of the "urban footprint." Rural consists of all territory, population, and housing units located outside of UAs and UCs.

For the 2010 Census the urban and rural classification was applied to the 50 states, the District of Columbia and Puerto Rico. Per agreements with the Island Areas, minor modifications to the classification were implemented when applied to American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands.

Urbanized Areas (UAs)—An urbanized area consists of densely developed territory that contains 50,000 or more people. The Census Bureau delineates UAs to provide a better separation of urban and rural territory, population, and housing in the vicinity of large places. The Census Bureau first introduced the urbanized area concept for the 1950 Census.

Urban Clusters (UCs)—An urban cluster consists of densely developed territory that has at least 2,500 people but fewer than 50,000 people. The Census Bureau first introduced the UC concept for Census 2000 to provide a more consistent and accurate measure of urban population, housing, and territory throughout the United States, Puerto Rico, and the Island Areas. Based on agreements with Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands, all qualifying urban areas are identified as urban clusters regardless of their final population counts. Thus urban clusters may exceed 50,000 people in these areas.

Urban Area Titles and Codes—The title of each UA and UC may contain up to three incorporated place or census designated place (CDP) names, and will include the two-letter U.S. Postal Service abbreviation for each state or statistically equivalent entity into which the UA or UC extends. However, if the UA or UC does not contain an incorporated place or CDP, the urban area title will include the single name of a minor civil division or populated place recognized by the U.S. Geological Survey's Geographic Names Information System.

Each UC and UA is assigned a 5-digit numeric code, based on a national alphabetical sequence of all urban area names. A separate flag is included in data tabulation files to differentiate between UAs and UCs. In printed reports, this differentiation is included in the name.

Relationship to Other Geographic Entities— Geographic entities, such as metropolitan areas, counties, minor civil divisions (MCDs), places, and census tracts often contain both urban and rural territory, population, and housing units.

5.19.1 Urban Area (UA) National Shapefile Record Layout (2010 Census)

File Name: tl_rd13_us_uac10.shp

Field	Length	Type	Description
UACE10	5	String	2010 Census urban area code
GEOID10	5	String	2010 Census urban area identifier, 2010 Census urban area code
NAME10	100	String	2010 Census urban area name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for urban area
LSAD10	2	String	2010 Census legal/statistical area description code for urban area
MTFCC10	5	String	MAF/TIGER feature class code (G3500)
UATYP10	1	String	2010 Census urban area type
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point

Field	Length	Type	Description
INTPTLON10	12	String	2010 Census longitude of the internal point

5.20 Urban Growth Areas

Urban growth area geography and attributes are only available in the states of Oregon and Washington in the following shapefile:

Urban Growth Area (UGA) State-based Shapefile (2010 Census)

Urban growth areas are legally defined entities in Oregon and Washington that the Census Bureau includes in the MAF/TIGER database in agreement with the states. Urban Growth Areas, which are defined around incorporated places, are used to regulate urban growth. Urban growth area boundaries, which need not follow visible features, are delineated cooperatively by state and local officials in Oregon and Washington and then confirmed in state law. The Census Bureau collected boundaries for urban growth areas from the State of Oregon as part of a pilot project for Census 2000. The pilot project was extended to the State of Washington for the 2010 Census. Each urban growth area is identified by a 5-digit numeric census code, usually associated with the incorporated place for which the urban growth area is named. There have been updates to the urban growth area where spatial changes may have affected the Census 2000 data in minor instances; however; there have been significant changes to update Oregon and Washington urban growth areas prior to 2010.

5.20.1 Urban Growth Area (UGA) Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state FIPS>_uga10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
UGACE10	5	String	2010 Census urban growth area code
UGATYP10	1	String	2010 Census urban growth area type
GEOID10	7	String	Urban growth identifier; a concatenation of state FIPS code and urban growth area code
NAME10	100	String	2010 Census urban growth area name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for urban growth area
LSAD10	2	String	2010 Census legal/statistical area description code for urban growth area
MTFCC10	5	String	MAF/TIGER feature class code (G6330)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.21 Voting Districts

Voting district geography and attributes are available by county in the following shapefile:

Voting District (VTD) County-based Shapefile (2010 Census)

"Voting district" is the generic name for geographic entities such as precincts, wards, and election districts established by state and local governments for the purpose of conducting elections. States participating in the Census 2010 Redistricting Data Programs as part of Public Law 94-171 (1975) provided the Census Bureau with boundaries, codes, and names for their voting districts.

Census 2010 Voting Districts

For 2010, "pseudo voting districts" were identified in instances when participating states chose to identify submitted voting districts that did not follow the actual boundary of the official voting

district. The Census Bureau identified these voting districts as "pseudo voting districts" with a "P" in the voting districts indicator (VTDI10) field. Where the participating state indicated that the voting districts they submitted exactly match the precincts or other elections districts in the state, the Census bureau indicates the voting districts are "actual" by populating the VTDI10 field with an "A". In cases where a participating state did not indicate to the Census Bureau whether the voting district was "actual" or "pseudo", the VTDI10 field defaults to "P".

Rhode Island did not participate in Phase 2 of the 2010 Census Redistricting Data Program.

Montana and Oregon participated in Phase 2, but did not provide voting districts for every county in their state.

Kentucky participated in other aspects of Phase 2, but did not provide any voting districts for their state.

5.21.1 Voting District (VTD) Shapefile Record Layout (2010 Census)

File Name: tl_rd13_<state-county FIPS>_vtd10.shp

Field	Length	Type	Description
STATEFP10	2	String	2010 Census state FIPS code
COUNTYFP10	3	String	2010 Census county FIPS code
VTDST10	6	String	2010 Census voting district code
GEOID10	11	String	Voting district identifier; a concatenation of the 2010 Census state FIPS code, county FIPS code, and voting district code
VTDI10	1	String	2010 Census voting district indicator
NAME10	100	String	2010 Census voting district name
NAMELSAD10	100	String	2010 Census name and the translated legal/statistical area description for voting district
LSAD10	2	String	2010 Census legal/statistical area description code for voting district
MTFCC10	5	String	MAF/TIGER feature class code (G5240)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point

5.22 ZIP Code Tabulation Areas (5-digit)

ZIP Code tabulation area geography and attributes are available in the following shapefile:

5-Digit ZIP Code Tabulation Area (ZCTA5) National Shapefile (2010 Census)

ZIP Code Tabulation Areas (ZCTAs) are approximate area representations of U.S. Postal Service (USPS) five-digit ZIP Code service areas that the Census Bureau creates using whole blocks to present statistical data from censuses and surveys. The Census Bureau defines ZCTAs by allocating each block that contains addresses to a single Code Tabulation Area, usually to the ZCTA that reflects the most frequently occurring ZIP Code for the addresses within that tabulation block. Blocks that do not contain addresses but are completely surrounded by a single Code Tabulation Area (enclaves) are assigned to the surrounding ZCTA; those surrounded by multiple ZCTAs will be added to a single ZCTA based on limited buffering performed between multiple ZCTAs. The Census Bureau identifies five-digit ZIP Code Tabulation Areas using a five-character numeric code that represents the most frequently occurring USPS ZIP Code within that ZCTA, and this code may contain leading zeros.

There are significant changes to the 2010 Code Tabulation Areas delineation from that used in 2000. For 2010 only legitimate five-digit areas are defined so there is no longer full nation-wide coverage. The 2010 ZCTAs will better represent the actual Zip Code service areas because the Census Bureau

initiated a process before creation of 2010 blocks to add block boundaries that split polygons with large numbers of addresses using different ZIP Codes.

Data users should not use ZCTAs to identify the official USPS ZIP Code for mail delivery. The USPS makes periodic changes to ZIP Codes to support more efficient mail delivery. The Code Tabulation Areas process used primarily residential addresses and was biased towards ZIP Codes used for city-style mail delivery, thus there may be ZIP Codes that are primarily nonresidential or boxes only that may not have a corresponding ZCTA.

ZIP Code Tabulation Area Codes—The Census Bureau identifies 5-digit ZCTAs using a five-character numeric code. For ZCTA codes that reflect the 5-digit ZIP Code, the last two characters of the ZCTA code will be numeric. For example, the ZCTA code "00601" represents the 5-digit ZIP Code 00601. The ZCTA delineation process did not recognize ZIP codes ending in "00", such as "29000", as valid 5-digit ZCTA codes.

5.22.1 5-Digit ZIP Code Tabulation Area (ZCTA5) National Shapefile Record Layout (2010 Census)

File Name: tl_rd13_us_zcta510.shp

Field	Length	Type	Description
ZCTA5CE10	5	String	2010 Census 5-digit ZIP Code Tabulation Area code
GEOID10	5	String	2010 Census 5-digit ZIP Code Tabulation Area identifier, 2010 Census 5-digit ZIP Code Tabulation Area code
CLASSFP10	2	String	2010 Census FIPS 55 class code
MTFCC10	5	String	MAF/TIGER feature class code (G6350)
FUNCSTAT10	1	String	2010 Census functional status
ALAND10	14	Number	2010 Census land area
AWATER10	14	Number	2010 Census water area
INTPTLAT10	11	String	2010 Census latitude of the internal point
INTPTLON10	12	String	2010 Census longitude of the internal point